CODE ALARM

PROFESSIONAL SERIES

Security and Remote Start Installation Guide for models:

ca6553
ca6553sst

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4280453

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BEFORE YOU BEGIN

FOR AUTOMATIC TRANSMISSION VEHICLES ONLY.
PROFESSIONAL INSTALLATION
STRONGLY RECOMMENDED

Installation Precautions:

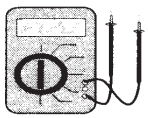
Roll down window to avoid locking keys in vehicle during installation

Avoid mounting components or routing wires near hot surfaces

Avoid mounting components or routing wires near moving parts

Tape or loom wires under hood for protection and appearance

Use grommets when routing wires through metal surfaces



Use a Digital Multi Meter for testing and verifying circuits. DO NOT USE A TEST LIGHT, OR "COMPUTER SAFE PROBE" as these can set off air bags or damage vehicle computers.

Technical Support (800) 421-3209
or go to
http://techservices.codesystems.com

4 Pin Main Harness

4 PIN MAIN	1	WHITE/RED	PARKING LIGHT INPUT
	2	WHITE	PARKING LIGHT OUTPUT
	3	BLACK	GROUND
	4	BROWN	SIREN OUTPUT (+)

6 Pin Start Harness

6 PIN START	1	PURPLE	STARTER OUTPUT - MOTOR SIDE
	2	RED	BATTERY 12V (+)
	3	ORANGE	ACCESSORY 1 (+)
	4	PINK/WHITE	IGNITION 2 (+)
	5	RED/WHITE	BATTERY 12V (+)
	6	PINK	IGNITION 1 (+)

6 Pin Output Harness

6 PIN OUTPUT	1	BROWN/BLACK	HORN OUTPUT (-)
	2	BLUE/BLACK	START STATUS / ACTIVE OUTPUT (-)
	3	VIOLET/BLACK	AUX 1 OUTPUT (-)
	4	RED/WHITE	TRUNK RELEASE OUTPUT (-)
	5	LT GREEN/BLACK	FACTORY DISARM / PULSE BEFORE START (-)
	6	ORANGE	GROUND WHEN ARMED OUTPUT (-)

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8 Pin Input Harness

8 PIN INPUT	1	BLUE/WHITE	INSTANT TRIGGER INPUT (-)
	2	GREEN	DOOR TRIGGER INPUT (-)
	3	PURPLE	DOOR TRIGGER INPUT (+)
	4	WHITE/BLUE	EXTRENAL START INPUT (-)
	5	GRAY	HOOD PIN INPUT (-)
	6	BLACK/WHITE	NEUTRAL SAFETY INPUT (-)
	7	BROWN/RED	BRAKE INPUT (+)
	8	PURPLE/WHITE	TACH INPUT

4 Pin Alternate Output Harness

4 PIN ALTERNATE OUTPUT	1	BLACK/YELLOW	PULSE DURING CRANK (-)
	2	GREEN/WHITE	PULSE AFTER SHUTDOWN (-)
	3	LT BLUE	FACTORY ARM / PULSE AFTER START (-)
	4	LT GREEN/BLACK	FACTORY DISARM / PULSE BEFORE START (-)

4 Pin AUX Output Harness

4 PIN AUX OUTPUT	1	PINK/BLACK	AUX 5 OUTPUT (-)
	2	ORANGE/BLACK	AUX 4 OUTPUT (-)
	3	GRAY/BLACK	AUX 3 OUTPUT (-)
	4	WHITE/BLACK	AUX 2 OUTPUT (-)

3 Pin Lock Output Harness

3 PIN LOCK	1	BLUE	UNLOCK (-)
	2	OPEN	
	3	GREEN	LOCK (-)

4 Pin Main Harness

1	WHITE/RED	PARKING LIGHT INPUT

2	WHITE	PARKING LIGHT OUTPUT

Locate the parking light output wire at the vehicle's light switch.

Verification: This wire registers positive voltage when the parking lights are turned on.

Positive switching Parking Lights:

Connect the WHITE/RED wire to a 15 Amp max fused battery source.

Connect the WHITE wire to the parking light output wire.

Negative switching Parking Lights:

Connect the WHITE/RED wire to a good chassis ground.

Connect the WHITE wire to the parking light output wire.

3	BLACK	GROUND

Connect the BLACK wire to a solid chassis ground point using a ring terminal and self tapping screw (not supplied). Scrape away paint from the grounding point to ensure a good connection. The recommended grounding point is a metal surface in the driver's side kick panel area.

NOTE: Do not ground the BLACK wire with any other vehicle components.

4	BROWN	SIREN OUTPUT (+)

Locate a suitable mounting location in the engine compartment for the siren, away from moving parts.

With the bell of the siren aiming downwards, secure the siren in place using self tapping screws, being careful not do drill into any hoses, wiring or components.

Connect the BLACK siren wire to a chassis ground using a ring terminal and self tapping screw (not supplied).

Route the BROWN siren output wire from the control module through the firewall and connect to the RED wire on the siren.

NOTE: Be sure to loom the siren wires, and seal the grommet.

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6 Pin Start Harness

1	PURPLE	STARTER OUTPUT (+)

Locate the vehicle starter wire.

Verification: This wire registers voltage *only* when the key is turned to the START position. Cut the vehicle's starter wire in half when installing the starter kill relay.

Verification after starter wire is cut:
KEY SIDE of starter wire registers voltage when the key is turned to the START position.
MOTOR SIDE of starter wire registers no voltage.

Connect the PURPLE wire to the vehicle starter wire, use the MOTOR SIDE of the vehicle starter wire when installing the starter kill relay.

2	RED	BATTERY 12V (+)

Locate 1 of the vehicle's constant 12 Volt battery wires at the ignition switch.

Verification: This wire will register (+) voltage in all positions of the ignition switch.

Connect the RED wire to the constant 12 Volt battery wire.

NOTE: Remove all fuses until all connections are made.

3	ORANGE	ACCESSORY 1 (+)

Locate the vehicle's accessory wire at the ignition switch.

Verification: This wire registers voltage when the key is turned to ACC (Accessory) and the ON (or RUN) position. The voltage drops out when the key is turned to the START (or CRANK) position.

Connect the ORANGE wire to the vehicle's accessory wire.

4	PINK/WHITE	IGNITION 2 (+)

Locate the vehicle's 2nd ignition wire at the ignition switch (if equipped).

Verification: This wire registers voltage when the key is turned to the ON (or RUN) position, but not the ACC (Accessory) position. The voltage does not drop out when the key is turned to the START (or CRANK) position.

Connect the PINK/WHITE wire to the vehicle's ignition 2 wire.

Programmable output: IGN, ACC, Start.

5	RED/WHITE	BATTERY 12V (+)

Locate 1 of the vehicle's constant 12 Volt battery wires at the ignition switch.

Verification: This wire will register (+) voltage in all positions of the ignition switch.

Connect the RED/WHITE wire to the constant 12 Volt battery wire.

NOTE: Remove all fuses until all connections are made.

6	PINK	IGNITION 1 (+)

Locate the vehicle's ignition wire at the ignition switch.

Verification: This wire registers voltage when the key is turned to the ON (or RUN) position. The voltage does not drop out when the key is turned to the START (or CRANK) position.

Connect the PINK wire to the vehicle's Ignition wire.

This wire is also used for Ignition 1 Output.

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6 Pin Output Harness

1	BROWN/BLACK	HORN OUTPUT (-)

Locate the vehicle's horn wire.

Verification: This wire will register at positive voltage and register ground when the horn switch is pressed.

Connect the BROWN/BLACK wire to the vehicle's horn wire. This is a low current output, 200mA.

2	BLUE/BLACK	START STATUS / ACTIVE OUTPUT (-)

This wire provides a ground output when the remote start function is activated and remains until 4 seconds after the remote start is shutdown. If this wire will be used for multiple application's a 1 amp diode is required in-line with the stripe facing the control module.

3	VIOLET/BLACK	AUX 1

This wire provides a (-) 200mA output capable of driving relays. For Control of optional accessories (i.e. Power Window/Sunroof, etc.).

To activate refer to the transmitter button configuration chart. Please refer to the selectable options for timing.

4	RED/WHITE	TRUNK RELEASE OUTPUT (-)

Locate the vehicle's trunk release wire at the trunk release switch.

Verification: This wire will register either positive voltage or ground when the trunk release is activated.

This is a low current 200mA output and in configurable in option programming.

5	LT GREEN/BLACK	FACTORY DISARM / PULSE BEFORE START (-)

This wire will supply a (-) 200mA pulse both upon disarming the system and when the remote start feature is activated. Locate the factory perimeter alarm disarm wire from the key cylinder inside the drivers door.

Verification: This wire registers ground if the key is turned to the unlock position in the driver's door cylinder.

Connect the LIGHT GREEN/BLACK wire to the factory alarm disarm wire.

6	ORANGE	GROUND WHEN ARMED OUTPUT (-)

This wire will have a continuous (-) 200mA output when the system is Armed. This wire is typically used for controlling the starter interrupt relay as well as window modules or additional sensors.

This output can be configured in option programming.

8 Pin Input Harness

1	BLUE/WHITE	INSTANT TRIGGER INPUT (-)

This wire is a GROUND input for an external sensor or secondary pin switch.

Verification: This wire when connected will trigger the security system.

2	GREEN	DOOR TRIGGER INPUT (-)

Locate the vehicle's dome light or door pin switch wire.

Verification: This wire will register ground (NEG) when the door is opened and the interior light is on. This wire will register positive voltage when the door is closed and the interior light is off.

Connect the GREEN wire to the vehicle's negative door input wire(s).

NOTE: Certain vehicles may require multiple connections. Refer to vehicle application guide.

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3	PURPLE	DOOR TRIGGER INPUT (+)

Locate the vehicle's dome light or door pin switch wire.

Verification: This wire will register positive voltage (POS) when the door is opened and the interior light is on. This wire will register ground or "0" Volts when the door is closed and the interior light is off.

Connect the PURPLE wire to the vehicle's positive door input wire(s).

NOTE: Certain vehicles may require multiple connections. Refer to vehicle application guide.

4	WHITE/BLUE	EXTERNAL START INPUT (-)

This wire will activate the Remote Start function when a GROUND pulse is applied to it from an external device.

5	GRAY	HOOD PIN INPUT (-)

Install a Hood Pin Switch and connect to the GRAY wire. This connection is required for Remote Start.

Verification: This wire when connected will register ground when the vehicle's hood is opened.

Connect the GRAY wire to the hood pin.

NOTE: Be sure to loom the wire, and seal the grommet.

6	BLACK/WHITE	NEUTRAL SAFETY INPUT (-)

Locate the vehicle's neutral safety circuit.

Verification: This wire registers (-) voltage when the vehicle's gear selector is in park or neutral.

Connect the BLACK/WHITE neutral safety input wire to the neutral safety wire of the vehicle or an optional toggle switch. The remote start feature will not operate unless this input is supplied with a ground source.

7	BROWN/RED	BRAKE INPUT (+)

Locate the vehicle's brake light wire at the brake pedal mounted switch. This connection is required for remote start.

Verification: This wire registers positive voltage when the brake pedal is pressed.

Connect the BROWN/RED wire to the vehicle's brake light wire.

8	PURPLE/WHITE	TACH INPUT

Locate the vehicle's ignition coil or fuel injector in the engine compartment.

Verification: Test using the following procedure:

1. Set voltmeter to AC VOLTS.
2. Attach positive lead of a volt meter to a constant 12 volt source.
3. Attach negative lead of a volt meter to the wire to be tested.
4. Start the engine.
5. Have someone press on the gas pedal slightly as you monitor the meter. If connected to the correct wire, the voltage reading will increase as the engine's RPM increases.

Connect the PURPLE/WHITE wire to the negative side of the vehicle ignition coil or fuel injector.

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4 Pin Alternate Output Harness

1	LT GREEN/BLACK	FACTORY DISARM / PULSE BEFORE START (-)

This wire will supply a (-) 200mA pulse both upon disarming the system and when the remote start feature is activated. Locate the factory perimeter alarm disarm wire from the key cylinder inside the drivers door.

Verification: This wire registers ground if the key is turned to the unlock position in the driver's door cylinder.

This output can be configured in option programming.

2	LT BLUE	FACTORY ARM / PULSE AFTER START (-)

This wire will supply a (-) 200mA pulse both upon arming the system and upon successful completion of the remote start activation sequence and is typically used to re-lock the vehicle's doors upon remote start if necessary.

This output can be configured in option programming.

3	GREEN/WHITE	PULSE AFTER SHUTDOWN (-)

This wire will supply a (-) 200mA pulse after the remote start shuts down. This is typically used to re-lock the vehicle's doors if they unlock upon remote start shutdown. It can also be used to pulse a door pin-switch wire to prevent the vehicle's accessories from remaining on after remote start shutdown.

This output can be configured in option programming.

4	BLACK/YELLOW	PULSE DURING CRANK (-)

Locate the vehicle's second starter (crank) wire at the ignition switch. (if equipped)

Verification: This wire registers voltage only in the start (crank) position of the ignition switch.

This output can be configured in option programming.

4 Pin AUX Output Harness

1	PINK/BLACK	AUX 5

This wire provides a (-) 200mA output capable of driving relays. For Control of optional accessories (i.e. Power Window/Sunroof, etc.).

To activate refer to the transmitter button configuration chart. Please refer to the selectable options for timing.

2	ORANGE/BLACK	AUX 4

This wire provides a (-) 200mA output capable of driving relays. For Control of optional accessories (i.e. Power Window/Sunroof, etc.).

To activate refer to the transmitter button configuration chart. Please refer to the selectable options for timing.

3	GRAY/BLACK	AUX 3

This wire provides a (-) 200mA output capable of driving relays. For Control of optional accessories (i.e. Power Window/Sunroof, etc.).

To activate refer to the transmitter button configuration chart. Please refer to the selectable options for timing.

4	WHITE/BLACK	AUX 2

This wire provides a (-) 200mA output capable of driving relays. For Control of optional accessories (i.e. Power Window/Sunroof, etc.).

To activate refer to the transmitter button configuration chart. Please refer to the selectable options for timing.

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3 Pin Lock Output Harness

1	BLUE	UNLOCK (-)

3	GREEN	LOCK (-)

The door lock / unlock outputs are designed to control several different types of systems which may require additional parts. Please review the wire and location chart to see which type of door lock system is in your vehicle. The most common types are shown in the following diagrams.

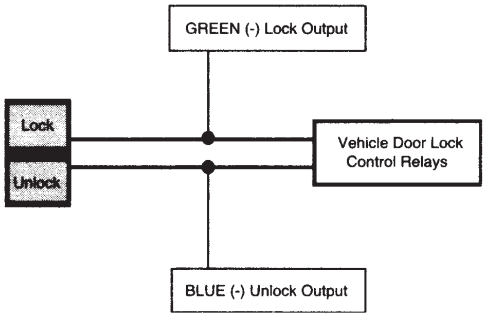
Negative Switching Locks

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: These wires will register ground when the Lock and Unlock switches are activated.

Connect the GREEN and BLUE wires shown in the diagram below.

Negative Locks:



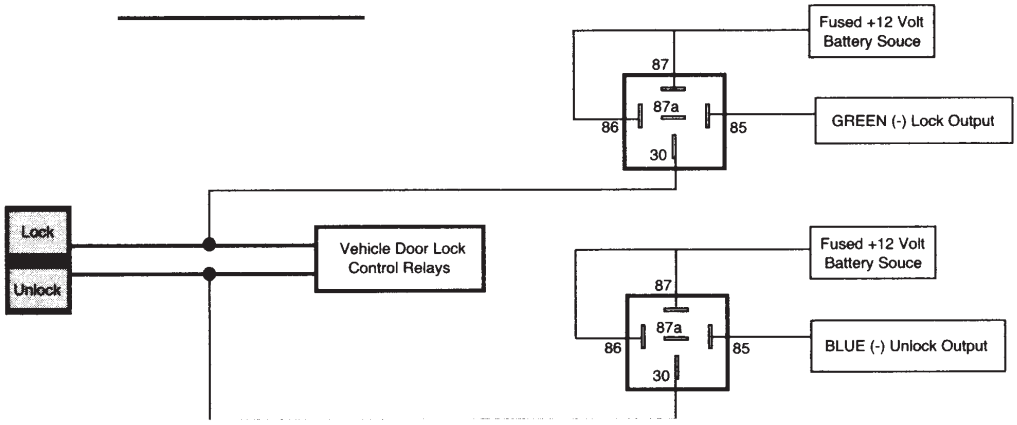
Positive Switching Locks

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: These wires will register positive voltage when the Lock and Unlock switches are activated.

Connect the GREEN and BLUE wires shown in the diagram below.

Positive Locks:



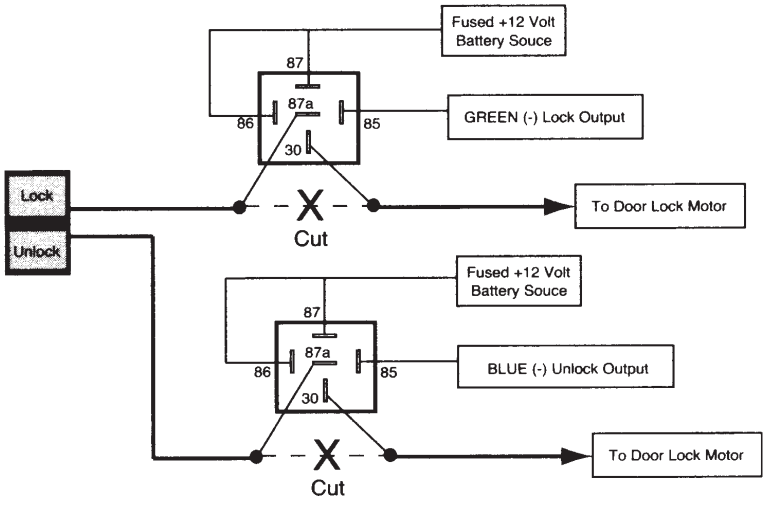
Reverse Polarity Locks (5-Wire Door locks)

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: These wires will rest at ground and register positive voltage when the Lock and Unlock switches are activated.

Connect the GREEN and BLUE or BLUE/GREEN wires shown in the diagram below using (2) SPDT relays (not supplied).

Reverse Polarity Locks:



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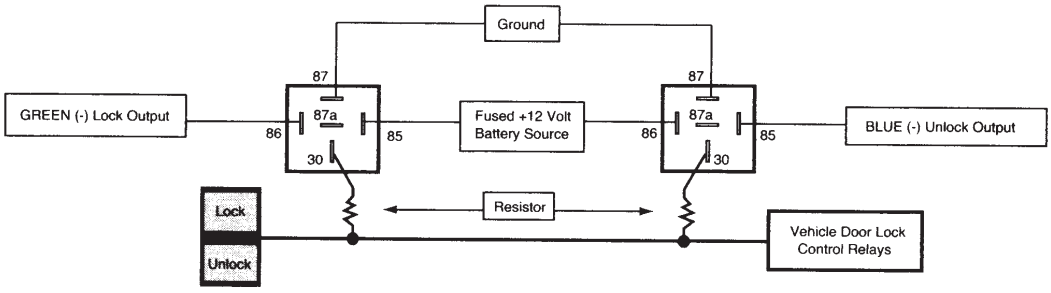
Negative Multiplexed Locks

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: This wire will show variable ground when the switch is activated. Please consult the wire and location chart for specific resistor values for your vehicle.

Connect the GREEN and BLUE or BLUE/GREEN wires shown in the diagram below using (2) SPDT relays (not supplied).

Multiplex Locks:



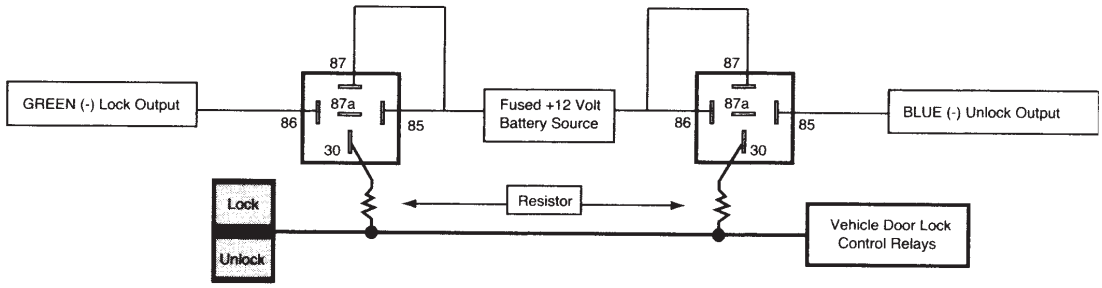
Positive Multiplexed Locks

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: This wire will show variable positive voltage when the switch is activated. Please consult the wire and location chart for specific resistor values for your vehicle.

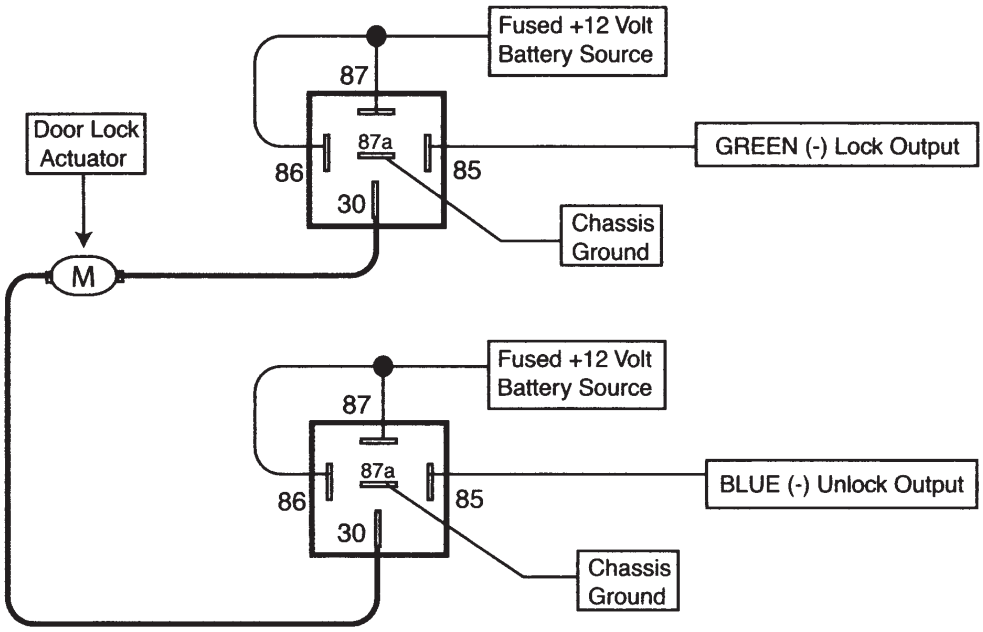
Connect the GREEN and BLUE or BLUE/GREEN wires shown in the diagram below using (2) SPDT relays (not supplied).

Multiplex Locks:



Adding Aftermarket Actuators

After installing aftermarket actuators, (not supplied). Connect the GREEN and BLUE wires shown in the diagram below using (2) SPDT relays (not supplied).



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Additional Ports

Antenna / LED / Programming Port

Mount the supplied antenna/receiver to a clear spot on the vehicle's windshield that will not block the driver's vision. A good location is usually high on the windshield near the rear view mirror. Be careful not to mount the antenna/receiver on any metallic window film, as this will effect system range. Route the antenna/ receiver cable to the control module and plug into the antenna port.

Data Bus Interface Port

This 4 pin port is used for Flashlogic Door Lock and Transponder Databus Interfaces to communicate with the vehicle's Databus. When using the DBI port to control the Flashlogic Door Lock and Transponder Interface modules the following options may be available. Please refer to the D2D (Data to Data) function list available per vehicle on the tech service web site.

Tach Input	Brake Safety Shut Down
Door Trigger	Trunk/Hatch Open
Door Lock Control	Passlock / Passkey Interface (GM Only)
Dome Light Supervision	Transponder Interface Activation
Factory Alarm Arm / Disarm	Diesel Glow Plug Input

Manual Arm / Disarm Inputs (factory keyless controls system)

Telematic Interface Port

This 4 pin port is used for telematic Interface accessories, such as CarLink, which can control some of the following features.

Door Lock Control	Trunk Release
Sliding Doors	AUX Output
Car Find	Remote Start

Set Up & Programming

Transmitter Programming - Feature Bank 1

1. Turn the ignition ON.
2. Press and hold the valet/override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Press 1 button of each transmitter you wish to program.
5. The system will respond with 1 chirp for each accepted transmitter.
6. Pressing the override button at anytime during programming will advance to the next bank.

NOTE: The system will exit transmitter programming after 15 seconds of inactivity.

NOTE: This system has 1 button programming which programs all channels of the system.

NOTE: The system will hold up to 4 transmitters in memory, programming a 5th transmitter will erase the oldest transmitter in memory.

NOTE: This system has PTN - Programmed Transmitter Notification. Each time the ignition is turned ON, the LED will flash the number of transmitters programmed to the system.

Transmitter programming for 2 Car Mode *2 way system only:

1. Enter the transmitter into 2 Car Mode. (Refer to transmitter operation in the owners manual for 2 car operation)
2. Follow the steps above for transmitter programming.

NOTE: 2 car mode requires an additional security system installed in a second vehicle.

Manual Feature Programming - Feature Bank 2 - 5

1. Turn the ignition ON.
2. Press and hold the valet/override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Use the valet/override button to advance through each option bank. For feature programming advance to Feature Bank 2, 3, 4 or 5, which is (4) four, (5) five, (6) six and (7) seven chirps.
5. Use the transmitter button to scroll through the selections in each feature bank, the system will chirp to match the feature number.
6. Press the transmitter button to change the desired feature. The LED will flash indicating the changed feature.

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Defaulting All Features: Pressing the 3 button anytime while in any of the feature banks will default all features and return you to feature bank 2 - 4 chirps.

NOTE: The system will remain in feature programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.

Feature Bank 1 - *3 Chirps*
Transmitter Programming

Refer to transmitter programming.

	Feature Bank 2 - *4 Chirps* **Security Control**	**1 LED Flash**	**2 LED Flash**	**3 LED Flash**	**4 LED Flash**	**5 LED Flash**	**6 LED Flash**
1	Silent Choice	ON	OFF				
2	Passive Locks	Active	Passive				
3	Passive Arming	Active	Passive				
4	Siren / Horn - Arm/Disarm Chirps	Siren / Horn	Siren	Horn			
5	Siren Duration	30 Seconds	60 Seconds				
6	Security	ON	OFF				
7	Anti-Hijack Mode	OFF	ON				
8	Orange - Ground w/ Armed Output	Ground While Armed	Ground While Disarmed				
9	DBI Port Protocol	DBI Protocol	ADS Protocol				
10	Arm/Disarm Chirp / Parking Light Pattern	Standard: 2 - Arm 1 - Disarm	Inverted: 1 - Arm 2 - Disarm				

	Feature Bank 3 - *5 Chirps* Output Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1	Extended Lock Pulse	1 Second	3.5 Seconds	1 Second Lock, Double Pulse Unlock	30 Second Lock, Double Pulse Unlock	Double Pulse Lock, 1 Second Unlock	
2	Factory Disarm Lt Green / Black	Factory Disarm	2nd Unlock	Factory Disarm / Start Status			
3	Ignition Controlled Locks	OFF	Lock and Unlock	Lock Only	Unlock Only		
4	Trunk Output Timing Red / White Output	1 Second Pulse	10 Seconds	20 Seconds	Latched until IGN ON	Latched ON until Button Press	
5	Horn Output Timing	16mS	10mS	30mS	40mS	50mS	
6	Real Panic	ON	OFF				
7	AUX 1 Violet / Black Output	Push and Hold	Latched	Latched until IGN ON	Dome Light Output	Defrost Output Single Pulse After Start	Defrost Output Latched 5 Min After Start
8	AUX 2 White / Black Output	Push and Hold	Latched	Latched until IGN ON	10 Second Pulse with Arm	10 Second Pulse with Disarm	
9	AUX 3 Gray / Black Output	Push and Hold	Latched	Latched until IGN ON	10 Second Pulse with Arm	10 Second Pulse with Disarm	
10	AUX 4 Orange / Black Output	Push and Hold	Latched	Latched until IGN ON	10 Second Pulse with Arm	10 Second Pulse with Disarm	
11	AUX 5 Pink / Black Output	Push and Hold	Latched	Latched until IGN ON	10 Second Pulse with Arm	10 Second Pulse with Disarm	

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	Feature Bank 4 - *6 Chirps* Remote Start Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1	RF Start Chirp	ON	OFF				
2	Run Time	15 Minutes	5 Minutes	10 Minutes	20 Minutes	45 Minutes	60 Minutes
3	Running Lights	Steady	Flashing				
4	Tach Mode	Tach	Tachless (Crank Average / Voltage)	Hybrid (Crank Average / NO Voltage)	DBI Port		
5	Voltage Level	High	Low				
6	Crank Time	1.0 Seconds	0.8 Seconds	1.5 Seconds	2.0 Seconds	4.0 Seconds	
7	Crank Avereging / Crank Time	Averaging	Preset Time				
8	Gas / Diesel	Gas	10 Second Delay	15 Second Delay	20 Second Delay	45 Second Delay	
9	Single / Double Press Start	Double Press	Single Press				
10	IGN 2 Output	Ignition 2	Accessory	Start / Crank			
11	2 or 3 Hour Start	3 Hour	2 Hour				
12	Turbo Timer	OFF	1 Minute	3 Minute	5 Minute		
13	Transmission Mode	NA					
14	Temperature Start	OFF	14F	5F	-4F		

	Feature Bank 5 - *7 Chirps* 4 Pin Alternate Output Control	1 LED Flash	2 LED Flash	3 LED Flash	4 LED Flash	5 LED Flash	6 LED Flash
1	Lt Green / Black Output	Pulse Before Start / During Unlock	Ground While Running	Ignition	Accessory	Pulse During Crank	
2	Lt Blue Output	Pulse After Start / During Lock	Ground While Running	Ignition	Accessory	Pulse During Crank	
3	Green / White Output	Pulse After Shutdown	Ground While Running	Ignition	Accessory	Pulse During Crank	
4	Black / Yellow Output	Pulse During Crank	Ground While Running	Ignition	Accessory		

Tach Programming

The unit will not operate unless tach is programmed or tachless option is turned ON. If an attempt is made to start the vehicle via the remote start without first programming tach, the unit will flash the parking lights 7 times indicating tach has not been learned and stored. If the tach rate is not properly programmed to the specific vehicle, the unit may not realize that the vehicle is running in certain instances and re-engage the starter motor.

The Remote Start unit will learn the tach rate of most vehicle's single coil, multiple coil packs, or single injector. To learn tach:

1. Turn the ignition key to the ON position.
2. Press and release the valet/override button 3 times.
3. Immediately turn the ignition key OFF.
4. Press and hold the valet/override button, then start the vehicle using the key.
5. When the unit senses the tach signal, the parking lights will begin to flash.
6. Allow the vehicle to settle to a normal idle speed.
7. Release the valet/program push-button switch. The parking lights will turn on for 2 seconds and 1 long chip will indicate that the learned tach signal is stored and the unit has exited tach learn mode.

NOTE: If the unit fails to learn tach rate due to an improper tach connection or a poor tach source, the parking lights will not flash. To correct this situation, locate and connect the PURPLE/WHITE wire to the proper tach signal, and then repeat the tach learn routine.

Smart Tachless Mode

Smart Tachless Mode is available only if a tach signal has never been learned to the system and when activated will automatically change the Tach Mode feature in option programming to Tachless without the need to enter the feature programming mode.

1. Activate the remote start. The parking lights should begin flashing 7 times indicating no tach signal has been learned.
2. Within the 7 flash time period, press and hold the ↻ button.
3. The system will chirp 1 time indicating the system is now in tachless mode.

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Adjusting the Shock Sensor

1. Increase sensitivity by turning the adjustment dial clockwise.
2. Decrease sensitivity by turning the adjustment dial counter clockwise.

Testing the Shock Sensor

Arm the system and wait 6 seconds for the zone to stabilize, then firmly strike the vehicles bumper.

Chirp Delete - User Accessible

System ARM/DISARM chirps can be toggled ON or OFF without entering the programming feature banks.

1. Turn the ignition ON then OFF.
2. Press and release the valet/programming button 3 times. The system will respond with 1 chirp for ON or 2 chirps for OFF.

Dome Light Delay / Theater Dimming

The system can be programed to delay arming after the lock button is pressed (60 second max) for vehicles with a dome light delay or theater dimming feature. Once programed the system will 'learn' the timing of the dome light delay and add 2 seconds before arming.

1. Close all doors with ignition off.
2. Using the transmitter press LOCK, UNLOCK, LOCK ,UNLOCK, LOCK , UNLOCK, LOCK. The LED will light solid to indicate the system has entered DOME DELAY LEARN MODE.
3. Immediately OPEN then CLOSE the door WITHOUT disarming the system. The system will then monitor the door trigger wire. Once the dome light turns off, the system will then add 2 seconds and then exit the learning mode.
4. The LED will begin to flash indicating the system has exited the learning mode and is now armed.

Feature Descriptions

Feature Bank 2 - Security

1 - Silent Choice: Controls the normal arm/disarm chirps of the security system.

ON - Silent arming/disarming upon first press of lock/unlock, pressing lock/unlock a second time will activate the arm/disarm chirps respectively. The system will only sound the arm/disarm chirps upon a second press of the lock/unlock buttons.

OFF - normal arm/disarm chirps upon the first press of lock/unlock.

2 - Passive Locks: Determines manual or automatic locking of the vehicle's doors.

Active - Requires use of the transmitter to lock the vehicle's doors.

Passive - Automatically locks the vehicle's doors 1 minute after the last door is closed

3 - Passive Arming: Determines manual or automatic locking of the vehicle's doors.

Active - Requires use of the transmitter to arm the security system.

Passive - Automatically arms the security system 1 minute after the last door is closed

4 - Siren / Horn: This feature selects which output(s) will sound the system's arm/disarm chirps. This feature does not effect the triggered state of the security system and during a triggered cycle, both the siren and horn outputs will activate respectively.

5 - Siren Duration: This feature controls the length of time the system will sound when triggered.

6 - Security: Controls security functionality - ON / OFF.

ON - Full security functionality.

OFF - The security system does not trigger. Panic, Remote Start and all other convenience features operate as normal.

7- Anti-Hijack Mode: Controls car jack mode - ON / OFF.

OFF - Standard security system operation.

ON - Enables Car Jack mode functionality as described in the owners manual

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8 - Ground While Armed / Orange Output: Controls the output of the orange wire. This wire will either supply a (-) output when armed OR disarmed.

9 - DBI Port Protocol: Determines the protocol type in which the DBI port uses to interface with external modules.

DBI Protocol

ADS Protocol

10 - Arm/Disarm Chirp / Parking Light Pattern: Determines the number of chirps and parking light flashes when the system is armed/disarmed.

Standard - 2 chirps/light flashes with arm, 1 chirp/light flash with disarm.

Inverted - 1 chirp/light flash with arm, 2 chirps/light flashes with disarm.

Feature Bank 3 - Output Control

1 - Extended Lock Pulse: Controls the timing of the BLUE and GREEN lock output wires.

1 Second - Single 1 second lock pulse, single 1 second unlock pulse.

3.5 Seconds - Single 3.5 second lock pulse, single 3.5 second unlock pulse.

1 Second Lock, Double Pulse Unlock - Single 1 second lock pulse, double 1 second unlock pulse.

30 Second Lock, Double Pulse Unlock - Single 30 second lock pulse, double 1 second unlock pulse.

Double Pulse Lock, 1 Second Unlock - Double 1 second lock pulse, single 1 second unlock pulse.

2 - Factory Disarm: Controls the timing of the LT. GREEN/BLACK factory disarm wire on the 6 pin output harness only and does not change the output of the factory disarm wire on the 4 pin alternate output harness.

Factory Disarm - Single 1 second pulse with unlock and remote start activation.

2nd Unlock - Same output as unlock with 2nd press of unlock.

Factory Disarm / Start Status - Single 1 second pulse with unlock and continuous (-) output during the remote start cycle.

3 - Ignition Controlled Locks: Control of door locks when the ignition is cycled ON or OFF.

OFF - Door locks not activated by ignition.

Lock and Unlock - Doors lock when ignition is turned on and unlock when ignition is turned off.

Lock Only - Doors lock when ignition is turned on.

Unlock Only - Doors unlock when ignition is turned off.

4 - Trunk Output Timing - Red/White Output: Controls the output timing/type of the RED/WHITE output.

1 Second Pulse - 1 second pulse output.

10 Second - Continuous output for 10 seconds.

20 Seconds - Continuous output for 20 seconds.

Latched until IGN ON - Continuous output until the vehicle's ignition is turned ON.

Latched ON until Button Press - Continuous output until the activation button is pressed again.

5 - Horn Output Timing: Control the minimum horn pulse time in milli seconds, some vehicle will require a longer pulse to activate the factory horn.

16mS 10mS 30mS 40mS 50mS

6 - Real Panic: Controls the panic out when triggered from the transmitter.

ON - Randomized horn honks when panic is triggered.

OFF - Standard pattern horn honks when panic is triggered.

7 - AUX 1: Controls the VIOLET/BLACK AUX 1 output activation type and timing.

Push and Hold - Output is continuously active until transmitter button is released.

Latched - Output stays active until button is pressed again.

Latched until IGN ON - Output stays active until the ignition is turned on.

Dome Light Output - Output used for illuminated entry and is not controlled by the AUX 1 function of the transmitter.

Defrost Output Single Pulse - Single 1 second pulse after start

Defrost Output Latched 5 Minutes - 5 minute continuous output after remote start.

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8 - AUX 2: Controls the WHITE/BLACK AUX 2 output activation type and timing.

Push and Hold - Output is continuously active until transmitter button is released.

Latched - Output stays active until button is pressed again.

Latched until IGN ON - Output stays active until the ignition is turned on.

10 Second Pulse with Arm - Output stays active for 10 seconds with press of lock button.

10 Second Pulse with Disarm - Output stays active for 10 seconds with press of unlock button.

9 - AUX 3: Controls the GRAY/BLACK AUX 3 output activation type and timing.

Push and Hold - Output is continuously active until transmitter button is released.

Latched - Output stays active until button is pressed again.

Latched until IGN ON - Output stays active until the ignition is turned on.

10 Second Pulse with Arm - Output stays active for 10 seconds with press of lock button.

10 Second Pulse with Disarm - Output stays active for 10 seconds with press of unlock button.

10 - AUX 4: Controls the ORANGE/BLACK AUX 4 output activation type and timing.

Push and Hold - Output is continuously active until transmitter button is released.

Latched - Output stays active until button is pressed again.

Latched until IGN ON - Output stays active until the ignition is turned on.

10 Second Pulse with Arm - Output stays active for 10 seconds with press of lock button.

10 Second Pulse with Disarm - Output stays active for 10 seconds with press of unlock button.

11 - AUX 5: Controls the PINK/BLACK AUX 5 output activation type and timing.

Push and Hold - Output is continuously active until transmitter button is released.

Latched - Output stays active until button is pressed again.

Latched until IGN ON - Output stays active until the ignition is turned on.

10 Second Pulse with Arm - Output stays active for 10 seconds with press of lock button.

10 Second Pulse with Disarm - Output stays active for 10 seconds with press of unlock button.

Feature Bank 4 - Remote Start Control

1 - RF Start Chirp: Turns remote start activation confirmation chirps ON or OFF.

2 - Run Time: Controls the time in minutes that the vehicle will stay running under control of the remote start until the system times out. The system may also be shut down at any time by use of the transmitter or system shutdowns.

3 - Running Lights: Controls the WHITE parking light output wire during remote start.

Steady - Parking lights constant during the remote start cycle.

Flashing - Parking lights flash at a slow pace during the remote start cycle.

4 - Tach Mode: Determines how the system monitors the engine running during remote start.

Tach - Hard wired directly to the tach wire of the vehicle to monitor AC voltage.

Tachless (Crank Average/Voltage) - Determines crank time by averaging the last 8 times the vehicle was started with the key and then monitors the change in voltage after remote start.

Hybrid (Crank Average / No Voltage) - Determines crank time by averaging the last 8 times the vehicle was started with the key.

DBI Port - Monitors the vehicle's tach rate through an interface module connected to the DBI port.

5 - Voltage Level: The voltage variance for remote start when set to tachless. (see tach mode)

HIGH - The variance in battery voltage from before the remote start is activated to after the engine is running must be greater than 0.5 volts.

LOW - The variance in battery voltage from before the remote start is activated to after the engine is running may be less than 0.5 volts.

6 - Crank Time: Preset output times for the PURPLE starter wire.

7 - Crank Average / Crank Time: The length of time in which the remote start will crank the vehicle's starter.

Crank Average - Determines crank time by averaging the last 8 times the vehicle was started with the key.

Preset Time - Preset starter output time. (see crank time)

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8 - Gas / Diesel: Selects engine type and delay time for the starter output wire during remote start activation.

Gas - Gasoline engine, no delay for the starter output wire.

10 Second Delay - Diesel engine, delays the starter output wire for 10 seconds after the ignition has been powered up by the remote start.

15 Second Delay - Diesel engine, delays the starter output wire for 15 seconds after the ignition has been powered up by the remote start.

20 Second Delay - Diesel engine, delays the starter output wire for 20 seconds after the ignition has been powered up by the remote start.

45 Second Delay - Diesel engine, delays the starter output wire for 45 seconds after the ignition has been powered up by the remote start.

9 - Single / Double Pulse Start: Switches the remote start activation between a single or double press from the transmitter.

10 - IGN 2 Output: Programmable high current output.

Ignition 2 - Output becomes active with the same timing as the ignition output and does not drop out during crank.

Accessory - Output becomes active with the same timing as the accessory output, drops out during crank.

Start / Crank - Output becomes active with the same timing as the starter output wire, during crank only.

11 - 2 or 3 Hour Start: When activated, the remote start will activate and run for the programmed time and shut down every 2 or 3 hours.

12 - Turbo Timer: When activated, the vehicle will run for the programmed time.

OFF 1 Minute 3 Minutes 5 Minutes

13 - Transmission Mode: Not available on this model.

14 - Temperature Start: Sets the threshold temperature for temperature start mode. When temperature start is activated, the remote start function will activate when the ambient temperature drops below the selected temperature.

Feature Bank 5 - 4 Pin Alternate Output Control

1 - Lt Green/Black Output : Controls the LT GREEN/BLACK output activation type and timing.

Pulse before Start / During Unlock - 1 second pulse when remote start is activated. Also a 1 second pulse when unlock is pressed.

Ground While Running - Continuous output for the entire remote start sequence until after the vehicle shuts down.

Ignition - Output becomes active with the same timing as the ignition output and does not drop out during crank.

Accessory - Output becomes active with the same timing as the accessory output, drops out during crank.

Pulse During Crank - Output becomes active with the same timing as the starter output wire, during crank only.

2 - Lt Blue Output : Controls the LT BLUE output activation type and timing.

Pulse After Start / During Lock - 1 second pulse after the remote start sequence and has confirmed the vehicle is running. Also a 1 second pulse when unlock is pressed.

Ground While Running - Continuous output for the entire remote start sequence until after the vehicle shuts down.

Ignition - Output becomes active with the same timing as the ignition output and does not drop out during crank.

Accessory - Output becomes active with the same timing as the accessory output, drops out during crank.

Pulse During Crank - Output becomes active with the same timing as the starter output wire, during crank only.

3 - Green/White Output : Controls the GREEN/WHITE output activation type and timing.

Pulse After Shutdown - 1 second pulse after the remote start has shutdown.

Ground While Running - Continuous output for the entire remote start sequence until after the vehicle shuts down.

Ignition - Output becomes active with the same timing as the ignition output and does not drop out during crank.

Accessory - Output becomes active with the same timing as the accessory output, drops out during crank.

Pulse During Crank - Output becomes active with the same timing as the starter output wire, during crank only.

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4 - Black/Yellow Output : Controls the BLACK/YELLOW output activation type and timing.

Pulse During Crank - Output becomes active with the same timing as the starter output wire, during crank only.

Ground While Running - Continuous output for the entire remote start sequence until after the vehicle shuts down.

Ignition - Output becomes active with the same timing as the ignition output and does not drop out during crank.

Accessory - Output becomes active with the same timing as the accessory output, drops out during crank.

Transmitter Button Functions

1 Way Transmitter	Lock	Unlock	Car Find / Panic	Start		Operation Method
Lock	X					Press and Release
Unlock		X				Press and Release
2 Step Unlock		X				Press and Release 2 times
Trunk		X				Push and Hold (3 Sec)
Car Finder			X			Press and Release
Panic			X			Push and Hold (3 Sec)
Remote Start				X		Press and Release (1 or 2 times depending on selectable option)
Remote Start Shutdown				X		Push and Hold (3 Sec)
Run Time Extention				X		Press and Release 4 times.
AUX 1	X	X				Push and Hold (3 Sec)
Shock Bypass	X		X			Press and Release Lock then Press Lock + Car Find
Hidden Alarm	X		X			Press and Release Car Fnd then Press Lock
Passive Arming Bypass		X	X			Press and Release
Turbo Timer		X		X		Press Unlock + Start
2 / 3 Hour Start				X		Ignition ON/OFF, Press and Hold Valet Button, Press Start 4 times
Daily Start Timer	X			X		Press Lock + Start
Temperature Start		X		X		Press Unlock + Start While Armed
AUX 2, 3, 4, 5 - Access in AUX Mode						
Enter AUX Mode			X	X		Press and Hold Find + Start Transmitter LED flashes 1 time
AUX 2	X					Push and Hold (3 Sec)
AUX 3		X				Push and Hold (3 Sec)
AUX 4			X			Push and Hold (3 Sec)
AUX 5				X		Push and Hold (3 Sec)

2 Way Transmitter	Lock	Unlock	Car Find / Panic	Start	Function	Operation Method
Lock	X					Press and Release
Unlock		X				Press and Release
2 Step Unlock		X				Press and Release 2 times
Trunk		X				Push and Hold (3 Sec)
Car Finder			X			Press and Release
Panic			X			Push and Hold (3 Sec)
Remote Start				X		Press and Release (1 or 2 times depending on selectable option)
Remote Start Shutdown				X		Push and Hold (3 Sec)
Run Time Extention				X		Press and Release 4 times.
AUX 1	X	X				Push and Hold (3 Sec)
Shock Bypass	X		X			Press and Release Lock then Press Lock + Car Find
Hidden Alarm	X		X			Press and Release Car Fnd then Press Lock
Passive Arming Bypass		X	X			Press and Release
Turbo Timer		X		X		Press Unlock + Start
2 / 3 Hour Start				X		Ignition ON/OFF, Press and Hold Valet Button, Press Start 4 times
Daily Start Timer	X			X		Press Lock + Start
Menu					X	Press and Hold
Temperature Start		X		X		Press Unlock + Start While Armed
AUX 2, 3, 4, 5 - Access in AUX Mode						
Enter AUX Mode					X	Press and Hold F for 2 seconds LCD displays AU
AUX 2	X					Push and Hold (3 Sec)
AUX 3		X				Push and Hold (3 Sec)
AUX 4			X			Push and Hold (3 Sec)
AUX 5				X		Push and Hold (3 Sec)

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Security Trigger Zones

If the security system has been triggered the LED will flash one of the patterns below indicating the zone.

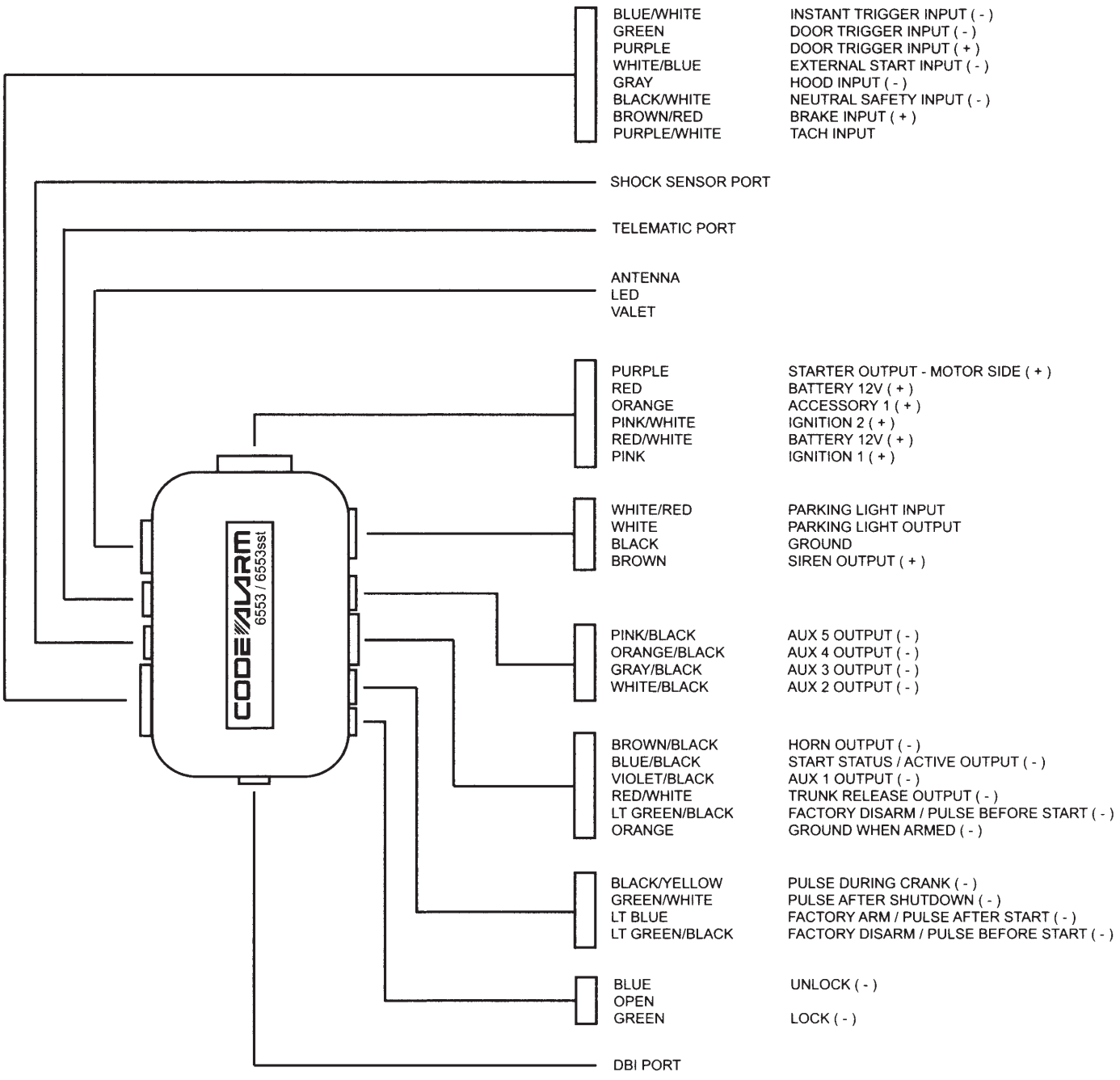
LED FLASHES	TRIGGER ZONE
2 Flashes	Hood / Trunk Input
3 Flashes	Door Input
4 Flashes	Shock Sensor
5 Flashes	Ignition Input

Remote Start Shutdown Diagnostics

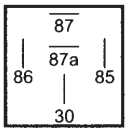
If the remote start shuts down or fails to start, the parking lights will flash one of the patterns below indicating the shutdown input.

To manually enter diagnostics and view the last shutdown, turn the ignition ON and press and release the button.

LED FLASHES	SHUTDOWN ZONE
3 Flashes	Hood Input Brake Input Neutral Safety Input
4 Flashes	Remote Start Valet Mode
5 Flashes	Manual Transmission Mode not set (manual transmission models only)
7 Flashes	Tach not learned / Crank Average not learned



STARTER INTERUPT RELAY



ORANGE	86 - ARMED OUTPUT (-)
RED	85 - IGNITION (+)
BLACK	87A - STARTER OUTPUT - MOTOR SIDE
WHITE / BLACK	30 - STARTER INPUT - KEY SIDE
OPEN	87 - OPEN

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Customer Service 1-800-421-3209
WWW.CODE-ALARM.COM

FCC COMPLIANCE

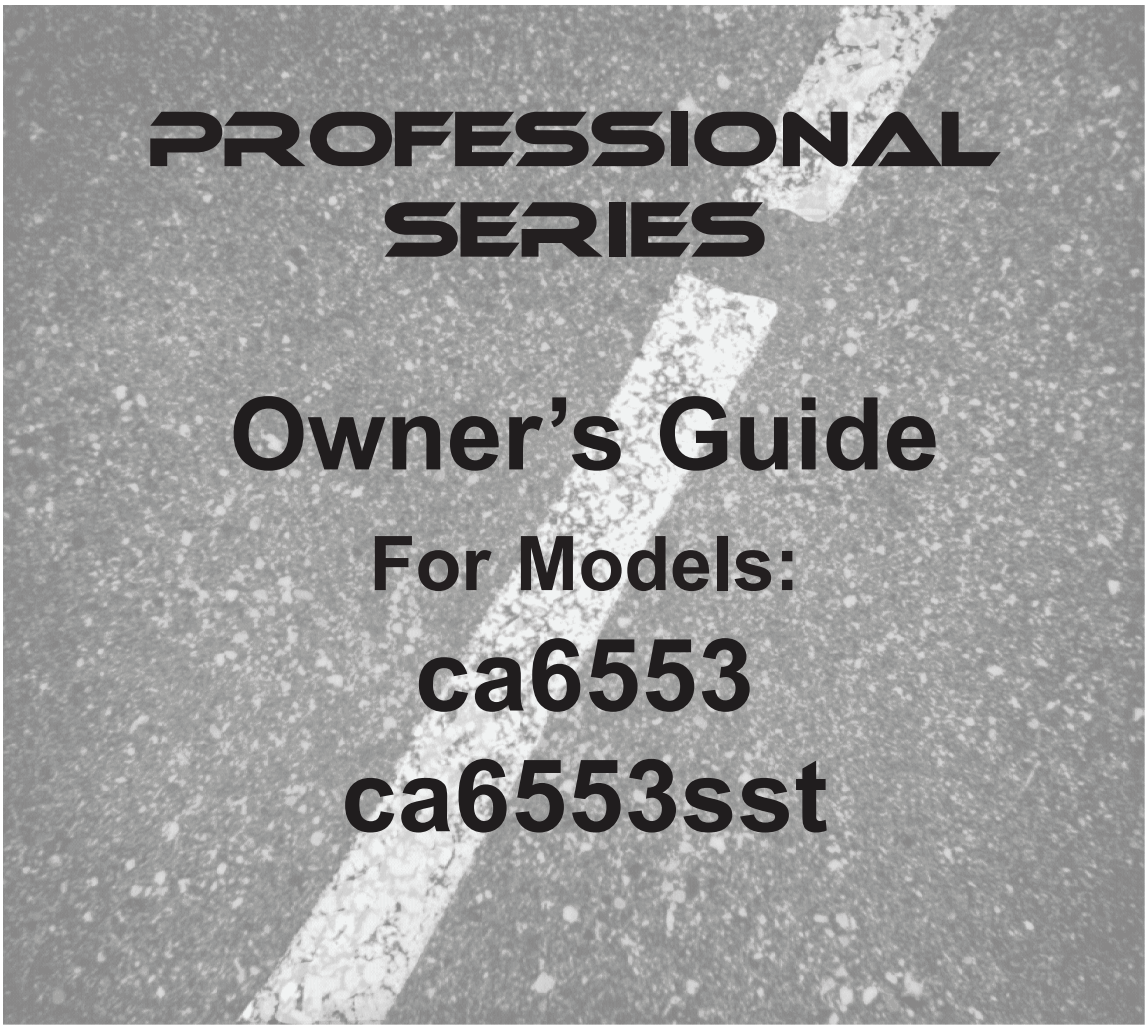
This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including any interference that may cause undesired operation.

Warning!

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CODE ALARM



Deluxe Vehicle Security and

Remote Start System with 2 Way

Confirming LCD Remote Control

IMPORTANT NOTE: The operation of the Security and Convenience System as described in this manual is applicable to most vehicles. However, due to the configuration of some vehicles, some functions AND/OR SAFETY PRECAUTIONS may not apply. Please see your installing dealer for more information.

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Using Your Remote Control

Arming the Security System

To arm the system, exit the vehicle, close all doors, then press the button. The parking lights will flash 2 times, indicating the system is armed, has locked the doors (if equipped and connected) and activated the starter disable feature. The LED status indicator will blink steadily, once per second.

NOTE: The system is equipped with a feature called Silent Choice. If enabled, the system requires a second press of the button to activate an audible arming response from the vehicle.

Passive Arming Bypass

If passive arming is enabled on your system, while the system is disarmed, press + , the system will respond with 1 chirp and the LED will turn on. The security system will remain in this temporally bypassed state for as long as you wish. To exit passive bypass, press the or button and the system will return to normal status.

Bypassing The Shock Sensor

To arm the system and ignore the shock sensor press button, then within 5 seconds press + , the system will respond with 1 long chirp.

NOTE: The system will only change the shock sensor setting for one arm cycle and will be defaulted back to normal operation the next time the system is armed.

Hidden Alarm Function

Press the button first, within 3 seconds press the button to activate the hidden alarm function. The security system will arm with “Hidden Alarm Function” in which the siren / horn will be silenced if the system is triggered.

Disarming the Security System

To disarm the system press the button. The parking lights will flash 1 time, indicating the system is disarmed and has unlocked the doors (if equipped and connected).

NOTE: The system is equipped with a feature called Silent Choice. If enabled, the system requires a second press of the button to activate an audible disarming response from the vehicle. If your system is set up for 2 step unlock, a third press of unlock will activate the audible response.

*Throughout this manual, ‘press’ refers to pressing for less than 1 second; ‘press and hold’ refers to pressing for more than 2 seconds.

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Two Stage Door Unlock (Optional)

If this feature is enabled on your system, pressing the button one time will unlock only the driver's door. Press again within three seconds to unlock the remaining doors.

Activating the Trunk Release Feature (Optional)

If this feature is enabled on your system, pressing and holding the button for 3 seconds will open the vehicle's trunk or hatch.

Activating the AUX 1 Output (Optional)

If this feature is enabled on your system, pressing the and buttons simultaneously will activate an optional feature. This feature can be programmed for a wide range of functions like power window or sunroof automation, please consult your installing dealer to determine the functionality of your system.

Entering AUX Mode and Activating the Additional AUX 2 - 5 Outputs (Optional)

To access the additional AUX outputs, AUX 2, AUX 3, AUX 4, and AUX 5, you must first enter the transmitters AUX Mode. This will "shift" the functions of the transmitter buttons from their standard operation to control of the AUX outputs.

AUX Mode - 1 Way transmitter: Press and Hold and for 2 seconds, the transmitter LED will flash 1 time. AUX Mode will remain active for 15 seconds. AUX Mode will exit after 15 seconds of inactivity or by pressing and again for 2 seconds, the transmitter LED will flash 2 times to confirm exit.

AUX Mode - 2 Way transmitter: Press and Hold for 2 seconds, the transmitter LCD screen will display "AU". AUX Mode will remain active for 15 seconds. AUX Mode will exit after 15 seconds of inactivity or by pressing again for 2 seconds.

Activating outputs while in AUX Mode:

AUX 2: Press and Hold for 3 seconds.

AUX 3: Press and Hold for 3 seconds.

AUX 4: Press and Hold for 3 seconds.

AUX 5: Press and Hold for 3 seconds.

Using the Progressive Car Finder Feature

Press the button to locate your vehicle. The system will flash the parking lights and sound 5 times at low volume, increasing in volume each time the button is pressed.

Using the Personal Protection Alarm (Panic)

Press and hold the button for 3 seconds to activate the personal protection alarm. During panic mode, the normal function of the transmitter buttons will be suspended. The transmitter's and buttons can be used to lock and unlock the door (if the option is installed). To stop the alarm, press and hold the button on the transmitter again for 3 seconds. The system will automatically stop after 30 seconds.

Programmed Transmitter Notification

As a security precaution each time the vehicle's ignition is turn on the status LED light with flash the number of transmitters programmed into the system. This helps to identify unauthorized transmitters from accessing your vehicle. If you believe an unauthorized transmitter has been programmed to your system, contact your installing dealer for assistance.

Valet Mode

When valet mode is activated the status LED will light solid, and all security functions will be disabled. To enter or exit valet mode simply follow the 4 steps outlined below:

1. Turn the vehicle's ignition ON.
2. Push and hold the programming/valet button.
3. The LED will turn on solid when valet mode is active
4. Release the programming/valet button.

Eliminating Arm / Disarm Notification Chirps

System ARM/DISARM chirps can be toggled ON or OFF without entering the programming feature banks.

1. Turn the ignition ON then OFF.
2. Press and release the valet/programming button 3 times. The system will respond with 1 chirp for ON or 2 chirps for OFF.

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Manually Overriding the Security System

Your system can be disarmed without the use of the transmitter. This is necessary, since you will need the ability to operate your vehicle if the transmitter is lost or its battery fails. To by-pass the alarm system;

1. Open the vehicle door. The alarm will sound.
2. Turn the ignition key to the ON position.
3. Within 10 seconds, press and release the valet push button switch.

The alarm system will stop sounding and enter the (by-passed) mode. You can now start and operate the vehicle normally.

Car Jack Mode

This feature must be turned on in system programming, please consult your installing dealer.

Triggering Car Jack mode: While the ignition is ON and press and hold + for 2 seconds, the parking lights will flash 1 time and the system will act as follows;

1. 50 seconds after being triggered the siren will chirp for 15 seconds, during this 15 seconds you will be alerted to push the valet button to turn off Car Jack mode. If Car Jack mode is not turned off at this time it will advance to the next step.
2. Following the 15 second chirps (total time now 65 seconds) the siren will go into full sound and the parking lights will start flashing.
3. 90 seconds after trigger in, addition to the siren and parking lights, the system will activate the starter kill. THE SYSTEM WILL REMAIN IN THIS STATE UNTIL THE BATTERY IS DEPLETED.

OVERRIDE THE SYSTEM TO TURN OFF CAR JACK MODE: Turn the ignition OFF then On and press the valet button within 10 seconds.

Using Your Remote Vehicle Starter

Remote Starting Your Vehicle

To activate the remote vehicle start function, press and release the button 2 times within 2 seconds. The system will sound, the parking lights will flash 1 time and the system will check the vehicle to ensure it is safe to start. If all safety parameters are correct, the vehicle will start within 5 seconds. The vehicle's parking lights will turn on (or flash depending on system settings) as a visual indication that the vehicle has started and is running.

If your vehicle stalls or does not start, the system will pause 5 seconds, then try 2 more times to start the vehicle (a total of 3 attempts). The system will pause 5 seconds between each start attempt. If the vehicle does not start after the 3rd attempt, the system will abort the remote vehicle start process.

Remote Start Shutdown

Press and hold the button for 3 seconds to turn the vehicle off.

Entering the Vehicle while it is Running via Remote Vehicle Start

1. Unlock the vehicle's doors.
2. Enter the vehicle. DO NOT PRESS THE BRAKE PEDAL!
3. Insert the key into the ignition switch and turn to the ON or RUN position.
4. Press the brake pedal. The remote vehicle starter will disengage and the vehicle will operate normally.

Preheating or Precooling the Vehicle's interior

Before exiting the vehicle, set the temperature controls to the desired setting and operation. After the system starts the vehicle, the heater or air conditioner will activate and heat or cool the vehicle's interior to your setting.

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User Programmable Run Time / Run Time Extension

The system has the ability to allow the user to extend the time the vehicle will be running under control of the remote start. This will only extend the run time back to the current run time setting during the current remote start cycle. If your system is set to run 15 minutes and the time remaining is 4 minutes, extending the run time will reset the countdown timer to 15 minutes and your vehicle will continue to run for another 15 minutes. Follow the steps below to extend the vehicle's run time.

1. The remote start must already be active.
2. Press and release the button 4 times.
3. The system will chirp 1 time and flash the parking lights 4 times to confirm that the run time has been reset.

Using the "Quick-stop" Feature

If you want to make a short stop and keep your vehicle running (to keep the interior warm or cool), the quick-stop feature allows you to do this while keeping your vehicle secure and your keys with you.

To engage quick stop:

1. Stop the vehicle and place the transmission in PARK.
2. With your foot off the brake pedal, press and release the button 2 times within 2 seconds. The LED will flash 3 times to confirm quick stop is entered.
3. Remove the keys from the ignition and exit the vehicle. Press the button to lock the vehicle's doors if desired.

Note: Do not leave children or animals unattended in the vehicle when using the quick-stop feature.

Operating the 2 / 3 Hour Start Up Timer Mode

The system has the ability to start the vehicle every 2 or 3 hours for a 48 hour period. This feature is especially useful in cold climates where the only means to keep the engine and engine fluids warm is to periodically start the engine. The default setting is 3 hour, Selection between 2 or 3 hour is made in option programming.

WARNING!

Be certain that the vehicle is outdoors before using this or any remote starting device. A running engine produces dangerous carbon monoxide fumes which can be harmful or fatal if prolonged exposure occurs. DO NOT remote start the vehicle if it is garaged.

To begin the 2 / 3 hour start up timer mode:

1. Turn the vehicle's ignition ON then OFF.
2. Press and hold the valet button.
3. Press the button 4 times, the system will;
    a. When set for 3 Hour (default) - chirp 2 times and flash the parking lights 4 times.
    b. When set for 2 Hour - chirp 1 time and flash the parking lights 2 times.
4. Release the valet button.

To exit the 2 / 3 hour start up timer mode:

1. Turn the vehicle's Ignition ON.

OR

1. Activate the remote vehicle start feature using the remote control.

Turbo Timer

This option will keep the engine running to allow the vehicle's turbo to properly cool down before shutting the engine off.

To engage the Turbo Timer feature:

1. With the vehicle running via the ignition key and your foot off of the brake pedal.
2. Engage the vehicle's parking brake and press the and buttons simultaneously.
3. The vehicle's parking lights will turn on to verify the Turbo Timer feature has been activated.
4. Turn the ignition key OFF, the vehicle will continue to run until the pre-programmed time has elapsed (1, 3, or 5 minutes)

To disengage the turbo timer feature, press the vehicle's brake pedal.

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Operating the Daily Start Timer

The system has the ability to start your vehicle based on a 24-hour countdown timer. This feature requires a two-part activation sequence. From the remote, pressing both the & buttons together will activate the 24 hour countdown timer (the vehicle will start 24 hours from this time). Next, When you are finished operating the vehicle for the day, perform the following steps to complete the process.

1. Turn the ignition ON/OFF (vehicle must be disarmed).
2. Within 10 seconds, while pressing the brake, press and release the button twice.
3. The vehicle will emit 2 chirps and flash the parking lights 4 times.

Temperature Start Mode

The system has the ability to start the vehicle if the temperature drops below a preset temperature threshold. Once activated, the system will only start the vehicle one time based on the temperature setting and will be cancelled if the vehicle is started with the key or remote started by the transmitter. Temperature is read from the module, located below the dashboard in most instances, and the vehicle's interior temperature may vary from the ambient temperature.

1. The vehicle must be armed.
2. Press and release both the & buttons together.
3. The vehicle will emit 1 chirp and flash the parking lights 1 time.

Note: This feature is defaulted OFF and must be set in option programming.

Remote Start Safety Features

For safety and security reasons, the system will shutdown or prevent the remote vehicle starter from activating if any of the following occur:

1. The vehicle hood is open.
2. The brake pedal is pressed prior to turning the ignition key to the ON position.
3. The engine is over-revved (tach checking only).
4. Valet mode is active.

LED and Siren/Horn Indications

LED Display Indications

LED	Function
OFF	DISARMED
SLOW FLASH	ARMED
FAST FLASH	PASSIVE ARMING
ON (SOLID)	VALET MODE
2 FLASH... PAUSE	ZONE 2 TRIGGER, HOOD/TRUNK
3 FLASH... PAUSE	ZONE 3 TRIGGER, DOOR
4 FLASH... PAUSE	ZONE 4 TRIGGER, SHOCK
5 FLASH... PAUSE	ZONE 5 TRIGGER, IGNITION

Siren/Horn Indications

Chirps	Function
1	DISARM
2	ARM
3	DOOR AJAR UPON ARMING
4	DISARM / TRIGGERED
5	CAR LOCATOR

Parking Light Flash Indications

Flashes	Function
1	DISARM
2	ARM
3	DISARM / TRIGGERED
5	CAR LOCATOR
ON (SOLID)	REMOTE STARTED

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Additional 2-Way LCD Remote Control Functions

Check Vehicle Status

Press and release F 2 times then press 🔒 within 3 seconds, the transmitter will display the current status of the vehicle.

Display Illumination

Press and hold the F button for 1 second. The display will illuminate for 5 seconds.

Melody / Vibration Mode

To have the remote control vibrate, play a melody tone or both each time it receives a response from the vehicle press and release F then press and hold 🔓 for 2 seconds.

Button Beeps

To toggle button beeps on or off press and release F then press and hold 🚗 for 2 seconds.

Battery Save Mode

While in POWER SAVE MODE the 2-way LCD transmitter will NOT look for any incoming signals from the main unit until a button is pressed. The LCD screen will display SAVE to indicate that power save mode is ON. To enter power save mode press and hold F for 5 seconds.

Clear Flashing Icons and Melody Sound

Press the F button 3 times within 3 seconds. This will clear the melody sound and flashing icons on the LCD screen.

Stopping LCD Trigger Melody

To stop the alarm trigger melody if the system has been triggered WITHOUT disarming the system, press any button one time only, this will not send a command to the vehicle at this time and the alarm will continue to sound.

Button Lock

Press and release F then press hold the for 2 seconds to toggle the button lock on or off. When the button lock is active, the remote control will beep/vibrate 2 times when a button is pressed indicating it is locked.

Illumination

Press and release F 2 times then press and hold for 2 seconds to toggle illumination on or off. When on, the display will illuminate when it receives or sends a command.

2 Car Mode

To control a second security system enter 2 car mode by pressing F then press and together for 3 seconds. When the II icon appears on the transmitter's LCD screen it will control the second security system. Use the same method to exit 2 car mode and resume control of the original vehicle's security system.

NOTE: A second security system must be installed and the LCD transmitter must be learned to it before this feature will operate the additional system.

Parking Meter Countdown

The parking meter countdown timer has 6 preset times, to access the preset times and begin countdown press and release F then press and hold for 2 seconds, each additional press of will increase the countdown time.

Adjusting the Clock and Timer Settings

The clock, alarm clock and programmable countdown timer are accessed through the Function Menu. Press and hold F for 3 seconds to access the function menu, once you have accessed the feature menu press and release F to scroll through each feature and follow the steps below to adjust the settings for each. Press and hold F for 2 seconds to exit the menu.

Clock Hour	Press to increase or to decrease
Clock Minute	Press to increase or to decrease
Alarm Clock Hour	Press to increase or to decrease
Alarm Clock Minute	Press to increase or to decrease
Alarm Clock ON / OFF	Press to turn ON or to turn OFF
Countdown Timer Hour	Press to increase or to decrease
Countdown Timer Minute	Press to increase or to decrease
Countdown Timer ON / OFF	Press to turn ON or to turn OFF

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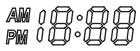
LCD Remote Control ICON's

	LOCK		UNLOCK
	SYSTEM ARMED		VALET MODE
	TRANSMITTING		IGNITION ON/TRIGGER
	TRUNK TRIGGER		DOOR TRIGGER
	HOOD TRIGGER		FULL SHOCK TRIGGER
	SYSTEM TRIGGER		TIME COUNT DOWN
	BATTERY INDICATOR		BATTERY SAVE MODE
	VIBRATE/SILENT MODE		MELODY MODE
	2 CAR MODE		TIME DISPLAY
	ALARM CLOCK		ENGINE RUNNING
	TIMER / TEMP. START MODES		AUX MODE
	AUX 1 OUTPUT		AUX 2 OUTPUT
	AUX 3 OUTPUT		AUX 4 OUTPUT
	AUX 5 OUTPUT		

Transmitter Button Functions

1 Way Transmitter	Lock	Unlock	Car Find / Panic	Start		Operation Method
Lock	X					Press and Release
Unlock		X				Press and Release
2 Step Unlock		X				Press and Release 2 times
Trunk		X				Push and Hold (3 Sec)
Car Finder			X			Press and Release
Panic			X			Push and Hold (3 Sec)
Remote Start				X		Press and Release (1 or 2 times depending on selectable option)
Remote Start Shutdown				X		Push and Hold (3 Sec)
Run Time Extention				X		Press and Release 4 times.
AUX 1	X	X				Push and Hold (3 Sec)
Shock Bypass	X		X			Press and Release Lock then Press Lock + Car Find
Hidden Alarm	X		X			Press and Release Car Fnd then Press Lock
Passive Arming Bypass		X	X			Press and Release
Turbo Timer		X		X		Press Unlock + Start
2 / 3 Hour Start				X		Ignition ON/OFF, Press and Hold Valet Button, Press Start 4 times
Daily Start Timer	X			X		Press Lock + Start
Temperature Start		X		X		Press Unlock + Start While Armed
AUX 2, 3, 4, 5 - Access in AUX Mode						
Enter AUX Mode			X	X		Press and Hold Find + Start Transmitter LED flashes 1 time
AUX 2	X					Push and Hold (3 Sec)
AUX 3		X				Push and Hold (3 Sec)
AUX 4			X			Push and Hold (3 Sec)
AUX 5				X		Push and Hold (3 Sec)

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2 Way Transmitter	Lock	Unlock	Car Find / Panic	Start	Function	Operation Method
Lock	**X**					Press and Release
Unlock		**X**				Press and Release
2 Step Unlock		**X**				Press and Release 2 times
Trunk		**X**				Push and Hold (3 Sec)
Car Finder			**X**			Press and Release
Panic			**X**			Push and Hold (3 Sec)
Remote Start				**X**		Press and Release (1 or 2 times depending on selectable option)
Remote Start Shutdown				**X**		Push and Hold (3 Sec)
Run Time Extention				**X**		Press and Release 4 times.
AUX 1	**X**	**X**				Push and Hold (3 Sec)
Shock Bypass	**X**		**X**			Press and Release Lock then Press Lock + Car Find
Hidden Alarm	**X**		**X**			Press and Release Car Fnd then Press Lock
Passive Arming Bypass		**X**	**X**			Press and Release
Turbo Timer		**X**		**X**		Press Unlock + Start
2 / 3 Hour Start				**X**		Ignition ON/OFF, Press and Hold Valet Button, Press Start 4 times
Daily Start Timer	**X**			**X**		Press Lock + Start
Menu					**X**	Press and Hold
Temperature Start		**X**		**X**		Press Unlock + Start While Armed
AUX 2, 3, 4, 5 - Access in AUX Mode						
Enter AUX Mode					**X**	Press and Hold F for 2 seconds LCD displays AU
AUX 2	**X**					Push and Hold (3 Sec)
AUX 3		**X**				Push and Hold (3 Sec)
AUX 4			**X**			Push and Hold (3 Sec)
AUX 5				**X**		Push and Hold (3 Sec)

Replacing Remote Control Batteries

1 Way 4 Button Remote Control - ca6553 / ca6553SST (catxmt / catxmss)

The batteries inside each remote control should last approximately 1 year under normal use. When the batteries become weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and the small LED on the remote control will dim. To replace the remote control batteries:

1. Remove 3 screws and disassemble the halves of the remote control.
2. Remove the old batteries, observing the +/- symbols on the batteries and replace with new batteries.
3. Reassemble the halves of the remote control and install the 3 screws.
4. Test operation of the remote control.

NOTE: The ca6553 uses 2 CR2016 batteries and the ca6553SST uses 1 CR2032.

2 Way LCD Remote Control - ca6553 (catxmlc)

The CR2450 battery inside the 2-way LCD remote control should last approximately 6 months under normal use. When the batteries become weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and the BATTERY icon on the LCD remote control will show.

1. Gently slide the battery cover off of the remote control.
2. Remove the old CR2450 battery, observing the +/- symbols on the battery, and replace with a new CR2450 battery.
3. Gently slide the battery cover on to the back of the remote control.
4. Test operation of the remote control.

2 Way LCD Remote Control - ca6553SST (catxmlss)

The battery inside the 2 way LCD remote control is rechargeable, use the supplied battery charger to charge the battery until the battery icon on the LCD screen shows 3 bars indicating charging is complete. It is recommended that the battery be fully charged before normal use.

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Code Systems, Inc. Limited Lifetime Warranty

Code Systems Inc. (“CODE”) warrants to the ORIGINAL PURCHASER of this CODE vehicle security product (the “Product”), purchased from an authorized CODE dealer, that (except as provided below) should this Product under normal use and conditions, be proven defective in material or workmanship DURING THE LIFETIME OF THE VEHICLE IN WHICH IT WAS ORIGINALLY INSTALLED, such defect(s) will be repaired or replaced (at CODE’s option) without charge for parts directly related to repairs of the defect(s).

Switches, indicator lights, and transmitter cases are similarly warranted to the original purchaser for a period of one (1) year from the date of purchase of the Product.

CODE accessories, sold separately, are covered by the applicable warranty accompanying the accessory.

This warranty is non-transferable, non-assignable and is voided when: (1) the Product is removed from the vehicle in which it was originally installed; or (2) the vehicle in which the Product was originally installed is transferred to another party.

This warranty does not apply to any product damaged by accident, physical or electrical abuse, improper installation, alteration, or use contrary to its intended function, fire, flood, or other natural acts.

In order for the Product to be repaired or replaced under the terms of this warranty, the defective Product must be returned to an authorized CODE dealer and accompanied by a copy of the retail sales receipt. The date of purchase and year, make and model of the vehicle in which the Product was originally installed must be clearly indicated on the sales receipt.

This warranty is exclusive and CODE MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. IN NO CASE SHALL CODE BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER.

CODE does not warrant that the Product cannot be compromised or circumvented. THE EXTENT OF CODE’S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT SHALL CODE’S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE ORIGINAL PURCHASER OF THE PRODUCT WITHOUT INSTALLATION LABOR.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state

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Audiovox Electronics Corporation.
Customer Service 1-800-421-3209
WWW.CODE-ALARM.COM

FCC COMPLIANCE

This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including any interference that may cause undesired operation.

Warning!

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARNING

THIS VEHICLE IS EQUIPPED WITH A REMOTE CONTROLLED CAR STARTER

BEFORE SERVICING THIS VEHICLE, REMOVE THE MAIN POWER FUSE (RED WIRE) TO THE CAR STARTER OR DISCONNECT THE VEHICLE BATTERY.

LBL0675

CODE ALARM

Register online at:
WWW.CODE-ALARM.COM

Click On Product Registration
and Fill Out the Brief Questionnaire

MAXIMUM INSURANCE DISCOUNT AUTHORIZATION

Dear Insurance Agent,

The installation of my Code-Alarm automatic (passive) arming security system in the vehicle indicated below qualifies me for the maximum discount mandated by law in some states and by insurance company option in others. This vehicle security system automatically arms itself after the doors are closed and includes at least one engine disabling relay to prevent the engine from being started.

Insured Signature:_____ Name(pleaseprint): _____

Street Address: _____ State: _____ Zip: _____

Insurance Company:_____

Policy#: _____

Vehicle Year/Make/Model: _____

Vehicle Identification #: _____

The signature below certifies that my Code-Alarm automotive security system was installed on _____ (date)_____

Installer Signature: _____

Company: _____

Address: _____ Telephone: _____

PLEASE COMPLETE AND MAIL TO YOUR INSURANCE COMPANY

1026673

CODE ALARM

$2,500.00

LIMITED WARRANTY

CODE SYSTEMS, Inc makes the following warranty to YOU as the original purchaser of this system.

Should YOUR private passenger vehicle in which the CODE-ALARM ANTI-THEFT SYSTEM is originally installed by an authorized dealer and while the system is operational and activated be stolen and not recovered or if stolen and recovered be deemed a total loss for theft insurance purposes, then subject to the following conditions, YOU will be refunded the comprehensive auto insurance deductible on your existing insurance not to exceed $2,500.00.

This Limited Warranty is effective for thefts occurring within one (1) year from the original date of purchase providing that: (A) the attached registration form has been completed in full and received by the CODE-ALARM Program Administrator at the address shown below with postmark that is within five (5) business days from the original date of purchase; (B) YOU properly and completely identify the vehicle in which the CODE-ALARM ANTI-THEFT SYSTEM has been installed; (C) YOUR vehicle is registered within the United States of America or Canada; (D) the theft of YOUR vehicle occurs within the United States of America or Canada; (E) YOU file a complete theft report with the police or other law enforcement agency having jurisdiction at the location of the theft; (F) YOU have comprehensive or theft insurance in force on the vehicle at the time of the theft and YOU have filed a claim for the theft of the vehicle with YOUR insurance carrier; and (G) the theft claim with YOUR insurance carrier is settled and final payment from them has been received.

This Limited Warranty applied solely to passenger vehicles, motor homes, and light duty trucks or vans not exceeding 13,500 GVW. It does not apply to any vehicle used in a business, for Livery or offered for hire. This Limited Warranty applies only to the vehicle as identified on the attached registration form.

In order to make a claim under the Limited Warranty, YOU are to provide the CODE-ALARM Program Administrator with the following information and materials:

- Proof of purchase including the purchase date.
  YOU ARE URGED TO SAVE YOUR ORIGINAL RECEIPT
- A certified or notarized complete copy of the police report filed by YOU
- A copy of the original declaration sheet from the insurance policy in force at the time of the system purchase. This declaration sheet must clearly show the amount of the deductible applicable to theft losses
- A copy of the insurance company settlement check and any related documentation

CONTINUED ON REVERSE

ADV-[redacted] C

THIS CARD MUST BE POSTMARKED WITHIN THIRTY (30) BUSINESS DAYS OF THE PURCHASE OF YOUR CODE-ALARM ANTI-THEFT SYSTEM. ORIGINAL PURCHASE RECEIPT MUST BE RETAINED AND SUBMITTED WITH ANY CLAIM FILED HEREUNDER

CONSUMER REGISTRATION CARD

Code-Alarm Anti-Theft System Purchased			Purchase Date
Name		Address	
City	State	Zip	Phone
Vehicle Year	Make/Model	VIN	
Insurance Carrier		Policy Number	
Amount of Comprehensive or Theft Deductible $			Expires
Dealer Name		Address	
Price Paid For System $		Was Installation Included? Yes ☐	No ☐
OPTIONAL INFORMATION	Age of Buyer:	Purchased for:	Yourself ☐ As a Gift ☐
Annual Household Income:	Less than $20,000 ☐	$20-40,000 ☐	$40-60,000 ☐ More than $60,000 ☐

BY **YOUR** SIGNATURE BELOW, YOU (1) AGREE TO ALL OF THE TERMS AND CONDITIONS SET FORTH IN THIS LIMITED WARRANTY AND (2) **YOU** UNDERSTAND AND AGREE THAT **CODE SYSTEMS, Inc** IS PROVIDING YOU WITH A LIMITED WARRANTY AND THAT THIS LIMITED WARRANTY IS NOT AN INSURANCE POLICY.

Signature _____ Date _____

ADV-[redacted] C

1026699

The CODE-ALARM Program Administrator reserves the right to ask for any other similar documentation or other materials that may be reasonably required to verify YOUR claim. All documentation received on a claim becomes the Code-Alarm Program Administrator's property and will not be returned.

All claim information must be mailed to the Code-Alarm Program Administrator within thirty (30) business days after receipt of the final settlement check from YOUR insurance carrier.

For the protection of YOUR rights, YOU are urged to make copies of all materials submitted and to send all materials via registered mail or any other means such that YOUR package can be traced in the event of its becoming lost or misdirected. The Code-Alarm Program Administrator is not responsible for materials not received in the CODE-ALARM Program Administrator's office. Please allow four (4) to six (6) weeks to process any claim hereunder.

This limited warranty is not an insurance policy or insurance coverage and is contingent on the existence of and payment from an underlying comprehensive auto insurance coverage and your compliance with all the terms and conditions set forth herein. This limited warranty has no cash value and is subject to all the terms and conditions set forth within this document.

This warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY, IN NO CASE SHALL CODE-ALARM OR THE CODE-ALARM PROGRAM ADMINISTRATOR BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to YOU. This warranty gives YOU specific legal rights and YOU may also have other rights which vary from state to state.

THIS WARRANTY AND WARRANTY PROGRAM IS NOT AVAILABLE AND MAY NOT BE MARKETED IN OR FROM THE STATE OF FLORIDA.

CODE ALARM

THE CODE-ALARM PROGRAM ADMINISTRATOR
Post Office Box 231809
Encinitas, CA 92023
Phone (800) 708 2113

POST OFFICE WILL NOT DELIVER WITHOUT PROPER POSTAGE AFFIXED HERE

CODE-ALARM LIMITED WARRANTY PROGRAM
Post Office Box 231809
Encinitas, CA 92023